

875—90.6(89) Inspections.

90.6(1) General. All boilers and unfired steam pressure vessels covered by Iowa Code chapter 89 shall be inspected according to the requirements of the National Board Inspection Code (2021), which is hereby adopted by reference. A division inspector or special inspector must perform the inspections.

90.6(2) Schedule.

a. All required inspections must be performed according to the schedule set forth in Iowa Code section 89.3, unless an exception is set forth in this rule.

b. Except for inspections of unfired steam pressure vessels operating in excess of 15 pounds per square inch and low pressure steam boilers, each certificate inspection must be performed within a 60-day period prior to the expiration date of the operating certificate. Modification of this 60-day period will be permitted only upon written application showing just cause for waiver of the 60-day period.

c. Special inspections may be conducted when deemed necessary by the division and the object's owner or user.

90.6(3) Inspections conducted by special inspectors. Special inspectors shall provide copies of the completed report to the insured and to the division within 14 days of completing the inspection. The reports shall list all noteworthy conditions that are within the scope of Iowa Code chapter 89, all recommendations, and all requirements. If the special inspector has not provided the results of the inspection within the time frame identified, the division may conduct the inspection.

90.6(4) Type of inspection. The inspection shall be an internal inspection when required; otherwise, it shall be as complete an external inspection as possible. Conditions including, but not limited to, the following may also be the basis for an internal inspection:

- a.* Visible metal or insulation discoloration due to excessive heat.
- b.* Visible distortion of any part of the pressure vessel.
- c.* Visible leakage from any pressure-containing boundary.
- d.* Any operating records or verbal reports of a vessel being subjected to pressure above the nameplate rating or to a temperature above or below the nameplate design temperature.
- e.* A suspected or known history of internal corrosion or erosion.
- f.* Evidence or knowledge of a vessel having been subjected to external heat from a fire.
- g.* A welded repair not documented as required.
- h.* Evidence of an accident, incident or malfunction that could affect or may have resulted from a problem with the object's integrity.

90.6(5) Internal inspections for unfired steam pressure vessels operating at more than 15 pounds per square inch. The commissioner may require an internal inspection of an unfired steam pressure vessel operating in excess of 15 psi when an inspector observes any deviation from these rules, Iowa Code chapter 89, the construction code, the installation code, or the National Board Inspection Code.

90.6(6) Inspection of inaccessible parts. When, in the opinion of the inspector, as a result of conditions disclosed at the time of inspection, it is advisable to remove the interior or exterior lining, covering, or brickwork to expose certain parts of the vessel not normally visible, the owner or user shall remove such material to permit proper inspection and thickness measurement of any part of the vessel. Nondestructive examination is acceptable.

90.6(7) Imminent danger.

a. If the labor commissioner determines that continued operation of an object constitutes an imminent danger that could seriously injure or cause death to any person, notice to immediately cease operation of that object shall be made to the owner or user through contact information available in the division's records or by posting a notice at the location of the object.

b. Upon such notice, the owner or user shall immediately take the necessary steps to cease operation of the object. All forms of energy to and from the object must be isolated and physically locked in the closed position.

c. A division inspector will verify that the object is no longer in operation and all forms of energy to and from the object have been isolated and are locked in the closed position.

d. The object shall not be used until all necessary repairs have been completed, the object has passed inspection, all repair documentation is complete, and the division reviews and approves the documentation.

e. Operation of an object in violation of this subrule may result in further legal action pursuant to Iowa Code sections 89.11 and 89.13.

90.6(8) *Internal inspections on a four-year cycle based on process safety management compliance.* The owner shall demonstrate compliance with the requirements set forth in Iowa Code section 89.3(5)“a”(4)(b) by annually submitting to the labor commissioner a notarized affidavit. The affidavit shall be in a format approved by the labor commissioner and shall be signed by the owner or an officer of the company.

90.6(9) *Internal inspection on a four-year cycle for utility objects.* An object that meets the criteria of this subrule shall be inspected internally at least once every four years and externally every year. If at any time the object or the owner no longer meets the criteria of this subrule, internal inspections shall be performed on a two-year cycle.

a. The object is owned and operated by an electric public utility subject to rate regulation under Iowa Code chapter 476.

b. The object and the owner meet all the requirements for a two-year internal inspection interval as set forth in Iowa Code section 89.3, subsection 4.

c. If the object is shut down for a period sufficient to allow safe entry, and more than two years have passed since the last internal inspection, the owner shall notify the labor commissioner of the outage and shall schedule an internal inspection.

d. If the labor commissioner determines that an earlier inspection is necessary, the owner shall prepare the object for inspection pursuant to rule 875—90.5(89).

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